

a) dispersing a calcined product of stimulable phosphor in a dispersion medium, to obtain a slurry;

b) eliminating grains that are of at least a predetermined size from the slurry of step a), using wet classification;

c) adding to the slurry of step b), a binder that is substantially soluble therein, to prepare a coating material; and

d) applying the coating material to a support and drying to thereby form a phosphor layer.

14. (Amended) A method for manufacturing a radiation image conversion panel, comprising the steps of:

a) dispersing a calcined product of stimulable phosphor in a dispersion medium, to obtain a slurry;

b) eliminating grains that are of at least a predetermined size from the slurry of step a), using wet classification;

c) substituting the dispersion medium with a solvent capable of substantially dissolving the binder, while maintaining a slurry in steps (a) - (c);

d) adding to the slurry of step c), a binder that is substantially soluble therein, to prepare a coating material; and

d) applying the coating material to a support and drying to thereby form a phosphor layer.

*C²
coated*
